



APRIL 1993



Pikes Peak Radio Amateur Association, Inc.
P. O. Box 16521
Colorado Springs, Colorado 80935

FIRST CLASS MAIL



PPRAA OFFICERS AND DIRECTORS

PRESIDENT	LUCI STANSBERRY NØUD	2630 E. UINTAH 80909	636-1290
VICE-PRESIDENT	MALLORY JEFFERIS NØIKF	854 CHAPMAN DRIVE 80916	591-0049
SECRETARY	LIZ DEUTSCH NØTUK	4305 RIDGELANE DRIVE 80918	593-8352
TREASURER	THOMAS L. MCDANIEL NØNTX	4255 SHINING WAY 80916	570-1463
PAST PRESIDENT	HARV SIMS WB6YXD	19740 FOUR WINDS WAY 80132	481-4597
BOARD MEMBER	KEN PHILLIPS NØNKP	4850 SANTIAGO WAY 80917	574-6358
BOARD MEMBER	ROSIE CALAWAY WØMNL	616 NORTH 31ST ST. 80904	471-9965
BOARD MEMBER	STEVE WESTBY WB7VHR	1340 KEITH DRIVE 80916	570-1070
BOARD MEMBER	STEVE SCHAARSCHMIDT KØCI	6155 TUKERMAN LANE 80918	598-3354
Ø-BEAT EDITOR	RON DEUTSCH NØP	4305 RIDGELANE DRIVE 80918	593-8352

ZERO BEAT is published monthly in the interest of the members of the Pikes Peak Radio Amateur Association, Inc., P.O. Box 16521, Colorado Springs, Colorado 80935. For membership and subscription information see last page of this publication. The Pikes Peak Radio Amateur Association meets on the second Wednesday of each month at the Elk's Lodge, 3400 North Nevada Ave. at 7 p.m.

EDITOR: Ron Deutsch NØP 4305 Ridgeline Drive, Colorado Springs, Colorado 80918 (719) 593-8352.

Deadline for submission of articles or ads is the 21st of each month. Submissions may be sent to the editor or to the club mail box. Permission to reprint articles is granted provided credit is given to both the author and this publication.

ADVERTISING RATES: Full page \$48; half page \$24, quarter page \$12, business card size \$6. These are monthly rates and are billed quarterly. Send your ad requests and payments to: P.O. Box 16521, Colorado Springs, CO 80935.

An Open Letter to PPRAA Members

On March 14 the PPRAA Board of Directors was informed by a representative of the Elks Club that the Elks Club is experiencing serious financial problems. The PPRAA monthly meetings currently cost the Elks Club \$100.00 per meeting. In order to continue meeting at the Elks Club, the PPRAA will need to come up with a way to raise \$100.00 per month. On March 24, the PPRAA Board of Directors held a special meeting to discuss possible options.

Ideas included the following:

1. PPRAA members volunteer to set up and tear down before and after each meeting,
2. increase dues,
3. decrease the size, number and mailings of the newsletter,
4. charge for admission to the monthly meetings,
5. move to new location. (A possible new location is currently being investigated, but as of this writing, details are not available).

It would probably take a combination of the above-listed options (with the possible exception of #5) to solve the problem.

The PPRAA needs ideas from the membership. If you have any ideas, please share them at the April 14 meeting. If you have just half of an idea or just a vague idea, please share it. Maybe someone else at the meeting has the other part of it. It is important that the general membership be fully involved in the decision-making process.

It should be emphasized that the relationship between the Elks Club and the PPRAA remains one of friendship and mutual respect. The problem that we are experiencing is caused by harsh economic realities, not by any animosity between the two organizations.

The final decision, whatever it is, is likely to involve some amount of compromise or "acceptance of inconvenience" on the part of all club members. But, that's life!

Thank you in advance for your support.

The PPRAA Board of Directors

PPRAA Meeting

April 14, 1993 7PM

Elk's Club 3400 North Nevada Ave.

Program: SKYWARN—Steve WB7VHR

PIKES PEAK RADIO AMATEUR ASSOCIATION



HAMFEST 1993

**ELECTRONIC, RADIO AND COMPUTER
FESTIVAL**



**SATURDAY MAY 15, 1993
8 AM - 4 PM**



**CITY AUDITORIUM
COLORADO SPRINGS**

221 E. KIOWA ST.

TALK-IN 146.37/97 OR 146.52

**Grand Prize - ICOM 725 HF Transceiver
and hourly drawings!!!**

Table Reservations
Dennis OCHS N7OGL
850 Santa Fe St.
Colorado Springs, CO 80903
1-719-630-0704

HAMFEST Chairman
Doug Paris N4TGO
16645 High Tree Drive
Elbert, CO 80106
1-719-495-9346

***\$3 Admission * Tables \$10 * VE
Testing * Commercial Exhibits *
Children under 10 FREE ***

Two-Meter Band Explodes

Mt. St. Lishnus Observatory, Idy, Ohio

In a special news conference, Dr. Avruell U. Harnishe, Chairman of the GEARVAK Scientific Studies Committee, announced the explosion of the two-meter band. The blast, at 11:03 AM EDT, measured 9.2 on the Reichtomrong scale.

Hundreds of hams operating on the band when the explosion occurred were injured when their equipment caught fire. According to Dr. Harnishe, the rupture was so violent it sent pieces of the shattered band into orbit.

Debris continues to fall through the ether, putting all radio frequencies at risk from collisions with two-meter band fragments.

The Federal Communications Commission issued a statement calling the situation "extremely hazardous." FCC Spokesman Ralph R. Spiffie said the two-meter band had been "utterly destroyed throughout the nation and that the event might have worldwide repercussions." He warned radio operators to stay away from their sets until the debris cloud settles and said, "Although no fatalities have been reported, it would be a miracle if no radio operators were killed."

Dr. Harnishe told reporters, "It's too soon to assess other long-term effects of the disaster, but two meters was damaged beyond repair. We believe the explosion originated on the West Coast and propagated rapidly eastward. The shock wave was powerful enough to make RF momentarily visible as it passed overhead.

"But the most distressing aspect of this tragedy is that it could have been avoided. Five years ago we warned people two meters would blow up, but nobody paid us any attention.

"In 1984, the Scientific Studies Committee reported increasing use of two meters. Transmitter power levels continued to raise pressure within the band. More energy was being put in than was being taken out, because sensitive modern receivers require very little RF power to produce readable signals."

To prevent the otherwise inevitable explosion, Dr. Harnishe had suggested, amateur radio operators could just listen on two meters for at least six months—without transmitting.

His "no-transmit rule" would have allowed pressure to fall to a safe "sustained yield" level, saving the band from destruction. Unfortunately, operators ignored Dr. Harnishe's advice and

continued to transmit. They even continued to increase their power levels.

Dr. Harnishe commented sadly, "Maybe they didn't believe this natural resource was finite and exhaustible. The result is a disaster of such magnitude it pales the great 20-meter fire of a decade ago into relative insignificance."

from the GEARVAK Bulletin, Vol 29, #1

"Pet Ham" Care and Feeding

"Pet hams" are so intelligent they often seem human, but they can be difficult to raise. Only someone with great patience should attempt it. In case you do, here is a short guide to the basics.

1. Living Area:

A pet ham needs a private "nest area"—an entire room where it will not be disturbed. Your pet ham will spend many happy hours alone there with its "treasures"—boxes, wires, bits of metal, glass, plastic, paper, etc.—that it will bring home whenever it ventures out. You'll want to encourage your pet ham to confine its activity to this room, to prevent the entire house from being subjected to noise, clutter and the boring of holes in walls.

2. Expenses:

Keeping a pet ham is expensive but, unlike most pets, a pet ham can be trained to work outside the home for a few hours each day. It may even bring in enough money to offset its expenses.

3. Feeding:

A well-behaved pet ham will eat with the family occasionally, but it usually will feel more comfortable and secure taking its meals in the nest room. You must be sure your pet ham is well supplied with food and drink during the long periods it spends alone in there, even if it doesn't beg or whine.

4. Housekeeping:

Most pet hams can be trained to use family toilet facilities but a few require a toilet or porta-pottie in the nest room.

5. Obedience Training:

A pet ham can be trained to perform simple tricks, the easiest and most common being "sit" and "speak." Don't be alarmed if it practices them for hours at a time in its nest room.

6. Health Problems:

The pet ham typically suffers lower back pain and minor throat irritations, from too much sitting and speaking, but health maintenance costs tend to be minimal.

7. Travel:

Your pet ham will gladly travel with the family by car or even by air, if allowed to bring along certain items from the nest room. Most pet hams enjoy trips to places where they can meet pet hams from other families.

8. Breeding:

If you plan to breed your pet ham, you should do so as soon as possible after you get it. As a pet ham matures, it becomes increasingly reluctant to engage in activities not associated with its nest room collection.

from the Arizona Repeater Association's March '89 'Squelch Tail,' reprinted in the Central Louisiana Amateur Radio Club's August '92 'Brass Key'—WG5W Editor

MILEY'S RADIO

Jess KØTAA
719 W. 7th St
Florence, Colorado 81226
(719) 784-3040

All Brands of new, used, and consignments
We trade and give you top trade-in price
We buy used ham equipment



COLORADO STITCHERY

Custom Design
Computerized Embroidery — Digitizing

Norm Skinner
(719) 550-9181

5222 Collier Lane
Colorado Springs, CO 80915

OEM PARTS

INC.

— QUALITY —

Optical — Electronic — Mechanical Parts
Buy — Sell — Trade — New & Used Surplus Items

3029 North Hancock Ave
Colorado Springs, CO 80907
719-635-0771 / 635-0772
FAX 719-475-2249

Retail Operations Director

JOHN MAX

President

Colorado Springs Wintronic Co.

Wholesale Distributors
Electronic Parts, Supplies & Equipment

2838 N. Prospect St.
Colorado Springs, Co. 80907

Tel. (719) 836-1661
FAX (719) 836-1663

11 Store Buying Power



8400 East Iliff, Unit 9
Denver, Colorado 80231

(303)745-7373

(800)444-9476

24 hour FAX Order Line (303)745-7394

Joe KDØGA George KDØRW
John N5EHP Mike N1ØE
Jim KBØBVN

Centennial Electronics

Distributor



- TUBES
- Capacitors
- Solder Aids
- Test Equipment
- Tools
- VCR/Stereo Accessories

"Hard to Find Batteries and Tubes"

Ham & Senior Discount
Wholesale - Retail

Hours: 8:30—1 Sat / 8:30—5:30 Mon.—Fri.

2324 E. Bijou
Colorado Springs, CO 80909

633-4666

April 1993

PIKES PEAK RADIO AMATEUR ASSOCIATION

SUNDAY

MONDAY

TUESDAY

WEDNESDAY

THURSDAY

FRIDAY

SATURDAY

				1 7:00pm Teller Co. ARES Net 146.82 8:00pm SCTN 146. 97	2 8:00pm SCTN 146. 97	3 7:00am Village Inn Breakfast 8:00pm SCTN 146. 97
4 COLORADO ARES NETS 8:00am Longmont Swapfest (NONMD) 6:30pm RACES HF NET 3990.5 8:00pm SCTN 146.97 8:00pm ARES Data Training 145.09	5 7:00pm Packet Voice Net 146. 97 8:00pm SCTN 146. 97	6 7:00pm ARES NET 146.97 7:30pm RACES NET 146.97 8:00pm SCTN 146. 97	7 8:00pm SCTN 146. 97	8 7:00pm Teller Co. ARES Net 146.82 8:00pm SCTN 146. 97	9 8:00pm SCTN 146. 97	10 Falcon Wanderers (NORNQ) 7:00am Village Inn Breakfast 9:00am VE Test (KIDSL) 10:00am Fox Hunt 8:00pm SCTN 146.97
11 COLORADO ARES NETS 6:30pm RACES HF NET 3990.5 8:00pm SCTN 146.97 8:00pm ARES Data Training 145.09	12 8:00pm SCTN 146. 97	13 7:00pm ARES NET 146.97 7:30pm RACES NET 146.97 8:00pm SCTN 146. 97	14 7:00pm PPRAA Meeting Elk's Club Program- -SKYWARN 8:00pm SCTN 146.97	15 RACES Training 7:00pm Teller Co. ARES Net 146.82 8:00pm SCTN 146. 97	16 8:00pm SCTN 146. 97	17 Walk for Children 7:00am Village Inn Breakfast 8:00pm SCTN 146. 97
18 COLORADO ARES NETS 4:00pm PPRAA Board Meeting NONKP 6:30pm RACES HF NET 3990.5 8:00pm SCTN 146.97 8:00pm ARES Data Training 145.09	19 7:00pm Packet Voice Net 146. 97 8:00pm SCTN 146. 97	20 7:00pm ARES NET 146.97 7:30pm RACES NET 146.97 8:00pm SCTN 146. 97	21 7:00pm MARC Meeting Woodland Park 8:00pm SCTN 146. 97	22 7:00pm Teller Co. ARES Net 146.82 8:00pm SCTN 146. 97	23 8:00pm SCTN 146. 97	24 7:00am Village Inn Breakfast 8:00pm SCTN 146. 97
25 COLORADO ARES NETS 6:30pm RACES HF NET 3990.5 8:00pm SCTN 146.97 8:00pm ARES Data Training 145.09	26 0-BEAT DEADLINE 8:00pm SCTN 146. 97	27 7:00pm ARES NET 146.97 7:30pm RACES NET 146.97 8:00pm SCTN 146. 97	28 8:00pm SCTN 146. 97	29 7:00pm Teller Co. ARES Net 146.82 8:00pm SCTN 146. 97	30 8:00pm SCTN 146. 97	

March

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

May

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

MONTHLY EVENT CALENDAR

3/28/1993

May 1993

PIKES PEAK RADIO AMATEUR ASSOCIATION

SUNDAY

MONDAY

TUESDAY

WEDNESDAY

THURSDAY

FRIDAY

SATURDAY

2 COLORADO ARES NETS 6:30pm RACES HF NET 3990.5 8:00pm SCTN 146.97 8:00pm ARES Data Training 145.09	3 7:00pm Packet Voice Net 146. 97 8:00pm SCTN 146. 97	4 7:00pm ARES NET 146.97 7:30pm RACES NET 146.97 8:00pm SCTN 146. 97	5 8:00pm SCTN 146. 97	6 7:00pm Teller Co. ARES Net 146.82 8:00pm SCTN 146. 97	7 8:00pm SCTN 146. 97	8 7:00am Village Inn Breakfast 10:00am Fox Hunt 8:00pm SCTN 146. 97																																																																																				
9 COLORADO ARES NETS 6:30pm RACES HF NET 3990.5 8:00pm SCTN 146.97 8:00pm ARES Data Training 145.09	10 8:00pm SCTN 146. 97	11 7:00pm ARES NET 146.97 7:30pm RACES NET 146.97 8:00pm SCTN 146. 97	12 7:00pm PPRAA Meeting Elk's Club Program- -Crystal Radios 8:00pm SCTN 146.97	13 7:00pm Teller Co. ARES Net 146.82 8:00pm SCTN 146. 97	14 8:00pm SCTN 146. 97	15 PPRAA SWAPFEST 7:00am Village Inn Breakfast 8:00pm SCTN 146.97																																																																																				
16 COLORADO ARES NETS 6:30pm RACES HF NET 3990.5 8:00pm SCTN 146.97 8:00pm ARES Data Training 145.09	17 7:00pm Packet Voice Net 146. 97 8:00pm SCTN 146. 97	18 7:00pm ARES NET 146.97 7:30pm RACES NET 146.97 8:00pm SCTN 146. 97	19 7:00pm MARC Meeting Woodland Park 8:00pm SCTN 146. 97	20 7:00pm Teller Co. ARES Net 146.82 8:00pm SCTN 146. 97	21 8:00pm SCTN 146. 97	22 7:00am Village Inn Breakfast 8:00pm SCTN 146. 97																																																																																				
23 COLORADO ARES NETS 6:30pm RACES HF NET 3990.5 8:00pm SCTN 146.97 8:00pm ARES Data Training 145.09	24 0-BEAT DEADLINE 8:00pm SCTN 146. 97	25 7:00pm ARES NET 146.97 7:30pm RACES NET 146.97 8:00pm SCTN 146. 97	26 8:00pm SCTN 146. 97	27 7:00pm Teller Co. ARES Net 146.82 8:00pm SCTN 146. 97	28 8:00pm SCTN 146. 97	29 Ham Radio Campout (KOTER) 7:00am Village Inn Breakfast 8:00pm SCTN 146.97																																																																																				
30 COLORADO ARES NETS Ham Radio Campout (KOTER) 6:30pm RACES HF NET 3990.5 8:00pm SCTN 146.97 8:00pm ARES Data Training 145.09	31 Ham Radio Campout (KOTER) 7:00pm Packet Voice Net 146. 97 8:00pm SCTN 146. 97	April <table><tr><th>S</th><th>M</th><th>T</th><th>W</th><th>T</th><th>F</th><th>S</th></tr><tr><td></td><td></td><td></td><td></td><td>1</td><td>2</td><td>3</td></tr><tr><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td></tr><tr><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td></tr><tr><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td></tr><tr><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td><td></td></tr></table> June <table><tr><th>S</th><th>M</th><th>T</th><th>W</th><th>T</th><th>F</th><th>S</th></tr><tr><td></td><td></td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr><tr><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td></tr><tr><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td></tr><tr><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td></tr><tr><td>27</td><td>28</td><td>29</td><td>30</td><td></td><td></td><td></td></tr></table>					S	M	T	W	T	F	S					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		S	M	T	W	T	F	S			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30			
S	M	T	W	T	F	S																																																																																				
				1	2	3																																																																																				
4	5	6	7	8	9	10																																																																																				
11	12	13	14	15	16	17																																																																																				
18	19	20	21	22	23	24																																																																																				
25	26	27	28	29	30																																																																																					
S	M	T	W	T	F	S																																																																																				
		1	2	3	4	5																																																																																				
6	7	8	9	10	11	12																																																																																				
13	14	15	16	17	18	19																																																																																				
20	21	22	23	24	25	26																																																																																				
27	28	29	30																																																																																							

MONTHLY EVENT CALENDAR

3/28/1993

PPRAA General Meeting, March 10, 1993

The meeting was called to order by President Luci, NØOUD at 7 PM. The minutes were accepted a printed.

Treasurer Report:

Previous Balance:	\$426.21
Income	\$1387.00
Expenses	\$139.59
New Balance	\$ 673.62

The PPRAA would like to thank Ivan for his donation of the payment he received for his published article in "QST". The article described how local hams assisted Memorial Hospital when the telephone system broke down in March, 1992.

Publicity:

Still trying to find two rooms adjacent to the City Auditorium for VE testing during the Swapfest.

Education:

The General and Novice/Tech classes have started. For more information contact Al Baily at 597-8514.

Interference:

There were two reported incidents related to interference with a TV and stereo.

RACES:

See calendar for net times. The Spring exercise will be May 1.

ARES:

See calendar for net times.

Public Service:

Field Day is the last weekend in June. A pre-Field Day camp-out was discussed. Contact Mike Stansberry, 636-1290 for details.

Skywarn:

AEØØW and NØQJS donated a 2 meter FM radio. The Skywarn program will be presented at the April meeting.

CCARC:

The next meeting is in April.

Ø-Beat:

Due to computer problem, lost data resulted in some members not receiving their monthly newsletters. The affected members will have their subscriptions automatically extended one month.

Swapfest:

120 tables are available. Pre-setup will be on the evening of May 14. Door control and floor monitors will be needed on the day of the Swapfest.

An excellent program describing ham radio involvement in satellites and the Space Program was conducted by Tom, NØNTX.

The meeting was adjourned at 9pm.

Submitted by Liz NØTUK, PPRAA Secretary

Board Meeting, March 14, 1993

The meeting was held at the QTH of Steve, WB7VHR.

The meeting was called to order by Luci, NØOUD at 3 pm.

The following were present: Luci, NØOUD, Tom, NØNTX, Harv, WB6YXD, Ken, NØNKP, Bill, NØNJX, Rosie, WAØMNL, Russ, KBØFNM, Steve WB7VHR, Steve, KØCI, Ron, NKØP, Fred, KAØWIE and Liz, NØTUK.

The Board would like to thank Ivan, NØMIX for his donation of \$5.00 to the club.

The Field Day sites will probably not have power and water hook-up sites.

The planned programs for future club meetings are : April, Skywarn; May, crystal radios; June, Field Day; July, electrical safety.

Discussed how to encourage newly-licensed hams to join the club.

The Elks Club is having financial problems. (see letter to membership).

The Board carried a motion to continue with free membership for Fred KAØWIE.

The May and June Newsletter will be combined.

Swapfest access to vendors should not be a concern. The is adequate access in the back of the auditorium by the loading dock.

The board passed a motion to continue membership free for one month for any member who was accidentally dropped from this month's newsletter roster.

The next meeting will be on April 18 at the QTH of Ken, NØNKP at 4pm.

The meeting was adjourned at 4:30 PM.

Submitted by Liz, NØTUK, PPRAA Secretary

Meeting Program Calendar

by Shirley Wolter, N6LFA

January:	<i>How to Disguise Soldering Iron Scars.</i> Our guest will also share his recipe for solder-chip cookies.
February:	<i>Creating Harmonics Can Be Fun</i> by our YL of the Year.
March:	<i>Phone Patches, How and Where to Apply Them.</i> Patches will be available at the meeting—in denim, corduroy, vulcanized rubber, and in the fashionable country-quilt look.
April:	<i>Playing the Saxophone on SSB for Fun and Profit.</i> The Heterodyne Quartet will demonstrate their lively subject with slides, flip-charts, and with their saxophones.
May:	<i>The Perfect Ground</i> , a lecture by the president of Local 102 of the IFGDFW (International Federation of Grave Diggers and Furnace Workers).
June:	<i>My 20-KW Station</i> by #947558321. The nature of the speaker's topic and his "situation" requires that we meet near his "office." Afterward we'll have a "fox hunt" beginning at the main-gate guardhouse.
July:	<i>The Art of Constructing 200-word Sentences Which Will Time Out Any Repeater West of the Urals.</i> The speaker, who holds the record for timing out 80 meters, will share tips on defeating repeater timers.
August:	<i>How to Get Along with ERA</i> (Equal Radio Access).
September:	<i>Self-Hypnosis, Key to Passing Code Tests.</i> This is tentative, depending on when the speaker's FCC case is scheduled in federal court.
October:	<i>A Solid-State Filter for Reducing XYL QRM on SSB Nets</i> , a practical approach by a member who wishes to remain anonymous and XYL-less.
November:	<i>I Don't Need a Linear, When I Can Run Barefoot With You—</i> a tender, touching demonstration of country & western music featuring a guitar soloist from Santa Barbara, California.
December:	A lively debating tournament, featuring teams of our members. We'll start with The Hams vs. The Turkeys and proceed to The Lids vs. The Handles. Then refreshments will be served as we review the Honey Dew Drill Team.

ARNS

A YL's Windspeed Chart

by Missy Stone, KB5DBX

I have difficulty remembering the standard way of estimating windspeed, e.g. "13-18 mph: raises dust and loose paper, moves small branches."

What if there is no dust or loose paper and just what is a small branch? The whole chart is ambiguous to my thinking, so I devised one that works better for me.

MPH Observation

- 0-1 Steam from your coffee cup rises vertically.
- 2-3 Drifting steam shows wind direction, but hairstyle stays in place without hairspray.
- 4-7 Gives a cooling sensation as astringent on your face dries.
- 8-12 Hairspray needed to hold hairstyle in place.
- 13-18 Dust from rug blows back in your face—no matter which way you shake the rug.
- 19-24 Nail polish dries in half the normal time.
- 25-31 Clothes on clothesline tie themselves in knots.
- 32-38 Plants in plastic pots spill over; bird feeders blow and hit your head while you're picking up the plants.
- 39-46 Glass storm-door slams on your finger as you wave good-bye to your lightweight lawn furniture—which is moving next door.
- 47-54 Even hairspray won't hold and if you dare smile you'll be stuck smiling 'till you get a drink.
- 55-63 Rare inland. Facial mask petrifies within 15 seconds. Pets can't obey "come home" command.
- 64-72 Very rare. You cannot hold onto your makeup bag. Widespread hysteria.
- 73+ Extremely rare. They're having a 75-percent-off sale at the mall but your car won't go against the wind.

from the Temple (Texas) Amateur Radio Club's TAAC Bulletin, Oct. 1991.

(only a YL could get away with writing this today, hi—ed.)

ARNS

Dits and Bits

For Sale:

Commodore 1548 external drive and color monitor. \$200 Alfred Sontag 591-0290

For Sale:

ICOM IC-04AT w/ BP-3, and BC-40 charging stand. \$200 Harvey, W1JU, 599-8604

For Sale:

AEA PK-232MBX. \$225 Malcolm, KE9S 488-2071

For Sale:

Stereo sound card w/speakers for IBM or compatible, Ad Lib compatible, with software. \$50 Ron NKØP 593-8352

For Sale:

Health SB-102 w/manuals, AC supply and DC to DC converter. \$175 NØNKP, Ken 574-6358

NØCMW & NØIUT Celebrate 50 years Together



I, NØCMW and Frances NØIUT Vrooman will renew their wedding vows as they celebrate their 50th wedding anniversary on Sunday, April 18th. A reception will be held from 2pm to 5pm at The Retired Enlisted Club, 843 Emory Circle here in Colorado Springs.

The Officers and Board members of the PPRAA wish to congratulate Al and Frances as they celebrate 50 years together.

Notice Notice Notice

The May and June issue of Ø-Beat will be combined into a Swapfest issue. The combined issue will be mailed on May 7th. The deadline for inclusion in this double issue will be April 21st.

Remember you will not get a Ø-Beat in June!
Direct any questions to Ron, NKØP, 593-8352



OM/YL Lunch Bunch

17 OM/YLs and their guests met for a most delightful lunch at the Home Town Buffet at the Shops of the Bluffs on March 18, 1993.

We plan to meet again on 22 April 1993 at the new Country Buffet, Citadel Crossing, at 11:30 AM for another stimulating conversational lunch. Y'all come.

73's Rosie Calaway, WAØMNL
The Cured Ham

Swapfest Boutique

Spring is here! So remember to think of the Swapfest Boutique when you are doing your spring housecleaning and run across any White Elephants you might want to contribute to the Boutique. Also, any homemade crafts you might have to contribute to the Boutique will be appreciated as all proceeds will go to our Club. Please bring them to the Club meeting, or call Faye, KBØQI, at 632-4574; or Connie, KAØPXE, at 634-1081, for any further information. Thanks.

The Boutique was a success last year, so we are looking forward to making it another one this year with your help.

Condition

by Shirley Wolter, N6LFA

You can judge someone's condition by what he takes two at a time—pills or stair-steps.

Not Human

by Shirley Wolter, N6LFA

Computers may not be human, but they have a few human traits—like an inclination to quit working.

from the Nov. 1980 'ARNS Bulletin'

CONTESTS

ARRL VHF/UHF SPRING SPRINTS

144 MHz, 19h A 23h local time, monday April 5, 1993.

222 MHz, 19h A 23h local time, Tuesday April 13, 1993.

432 MHz, 19h A 23h local time, Wednesday April 21, 1993.

50 MHz, 23h A 03h time in (UTC, GMT, Z) Saturday May 22 to Sunday May 23, 1993.

The 902 MHz, the 1296 MHz and 2304 MHz, Saturday May 1, 06h A 13h local time.

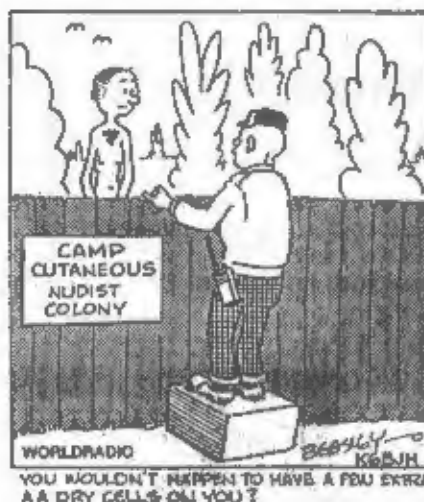
5 consecutive hours max.
DETAILS IN MARCH QST 1993 (p110).

Meteor Showers Report for 3/ 1/1993 to 12/31/1993

Date Meteor Shower

4/11/1993 Virginids
4/21/1993 Lyrids
4/27/1993 alpha-Scorpiids
5/ 4/1993 eta-Aquarids
5/12/1993 alpha-Scorpiids
6/ 9/1993 Ophiuchids
6/19/1993 Ophiuchids
7/ 7/1993 Capricornids
7/14/1993 Capricornids
7/20/1993 alpha-Cygnids
7/25/1993 Capricornids
7/28/1993 delta-Aquarids
7/30/1993 Piscis Australids
8/ 1/1993 alpha-Capricornids
8/ 5/1993 iota-Aquarids
8/12/1993 Perseids
8/20/1993 alpha-Cygnids
9/ 8/1993 Piscids
9/20/1993 Piscids
10/12/1993 Piscids

10/21/1993 Orionids
11/ 2/1993 Taurids
11/17/1993 Leonids
12/ 8/1993 Puppids-Velids
12/13/1993 Geminids
12/22/1993 Ursids
12/25/1993 Puppids-Velids



Committee Chairpersons

Publicity	Al Craig	594-9288
Membership	Les Borst	634-3995
Education	Al Bailey	597-8514
VE Testing	Rick Brown	531-9423
Interference	Bill Petty	591-2116
RACES	Doug Moloney	unlisted
ARES	John Chapman	635-1604
SkyWarn	Steve Westby	570-1070
Public Service	Mike Stansberry	636-1290
CCARC	Oak Stockton	570-7782
Club Tractor	Steve Westby	570-1070
Newsletter	Ron Deutsch	593-8352
Club Historian	Al Craig	594-9288
Swapfest	Doug Paris	495-9346

PPRAA Annual Hamfest
May 15, 1993
City Auditorium

Tables \$10.00

Chairman: Doug Paris,
N4TGO, 495-9346

Tables, Dennis, N7OGL,
630-0704

Watch here for details!!!

BEST KEPT SECRET IN SCIENCE...

Nikola Tesla

—The Man Who Invented The 20th Century.

Learn more about the inventor of **radio**, remote control devices, turbines, bladeless pumps and the worldwide wireless transmission of electricity. Then take the lab demonstration tour and see for yourself what Tesla Technology contributes to the 20th Century. Watch as we make real lighting! Touch the **Plasma Jars**, see our **Tesla Coils** fire up, feel real electricity! This is a *must see* on your tour calendar.

Tours at 2PM Monday thru Saturday.



Visit the
NIKOLA TESLA MUSEUM
of Science & Industry

2220 East Bijou
Colo Spgs, CO 80909

Or call (719) 475-0918

Membership Application **PIKES PEAK RADIO AMATEUR ASSOCIATION, INC.**

P.O. Box 16521
Colorado Springs, CO 80935

Date _____

Name _____

Address _____

City _____ State _____ Zip _____

Call _____ License Class _____

Are You An ARRL Member? ☐ Yes ☐ No

Telephone _____

- Member Over 65 \$10.00
- Family Both Over 65 \$12.00
- Associate Member \$10.00

- Full Member \$15.00
- Family Membership \$18.00
- Newsletter Only \$10.00

Additional Names _____ Call _____ Class _____

Associate Member

☐ (Outside Teller & El Paso Counties.)

☐ RENEWAL ✓ HERE

PLEASE TYPE OR PRINT CLEARLY